



# EC Series

Conventional Detectors





Location: Bakery

Environment: Temperature fluctuations, steam, flour dust

Solution: EC20FTU-3 fixed temperature heat detector

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Stability you've come to expect from the industry's leader in fire alarm technology.

EC Series low-profile plug-in detectors measure up to the quality and performance standards that have made ADT detection products the industry's best price-performance buy today. Meticulously engineered to deliver high-performance features, superb reliability, and unbeatable quality, these smoke and heat detectors are low-cost solutions for a wide range of conventional life safety and property protection applications.

### Simple installation and maintenance

The installation and maintenance advantages of the EC Series add value to these devices throughout their service life. Their twist-and-lock design makes short work of installation and maintenance operations. A plastic breakout on the detector housing prevents removal from the base except with a special tool. EC Series detectors also simplify required NFPA annual testing thanks to the available sensitivity test unit, and their removable housings make these detectors a snap to keep clean.



### A Total Small Building Life Safety Solution

Compatible with ADT control panels, and many others, EC Series detectors are perfectly suited to FireShield® and QuickStart® installations.



### Ionization Detector

The EC10 ionization detector responds quickly and reliably to all fire types, especially fast burning fires fuelled by combustibles such as oil, spirits, wood and paper. Particles as small as 0.01 microns will be detected by its sensing element, triggering an alarm even before visible smoke is apparent.

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EC Series smoke & heat detectors

## Fast response, easy-to-spot local indication

Their high-performance sensors ensure that EC Series detectors respond quickly and reliably to all fire types. Bright, easy-to-see LEDs indicate when the EC detector is in alarm, eliminating much of the guesswork when responding to front-panel indications. If a detector is removed for any reason while the panel is in its normal state, a zone trouble condition will result. This ensures the integrity of the alarm system at all times.

## Impeccable standards

All EC Series detectors are manufactured to strict international ISO 9001 standards. Electronics employ surface mount technology (SMT) for smaller size and greater immunity to RF noise. A corrosion-resistant conformal coating is used to seal components against dust and humidity.

## Accessories for every application



The C-PST sensitivity testing tool is an easy way to verify that sensitivity falls within the detector's optimum range.



A wide range of compatible detector bases means EC detectors can be easily applied to all typical conventional applications.



The EC-LED remote LED lights when a detector is in alarm. It fits a standard 1-gang box and connects to any standard base.



### Photoelectric Detector

The EC30U-3 photoelectric (optical) detector responds quickly and reliably to all fire types, especially slow burning fires fuelled by combustibles typically found in modern multi-use buildings. Using sophisticated technology based on light scattering principles, particles as small as 0.5 microns will be detected by the sensing element, triggering an alarm at the first sign of smoke.



### Heat Detector

EC Series heat detectors employ advanced electronic thermistor technology, making them ideal for a wide range of applications where smoke detection is inappropriate. The EC20RRU-3 rate-compensated detector is well suited to areas such as kitchens and shower rooms, where the ambient temperature is relatively constant, but where steam and smoke are present. The EC20FTU-3 fixed-temperature detector is ideal for laundries and industries where fluctuations in ambient temperature is expected.

# ec series

specifications

Model	EC10 Ionization	EC30 Photoelectric	EC20 Heat
Literature Part #	85001-0551	85001-0552	85001-0553
Operating Voltage Range	14 - 30 Vdc		
Normal Operating Current	50µA	62µA	64µA
Alarm Current	100 mA (max.)		
Sensitivity	Range: 0.69 to 1.29% obs/ft	Range: 1.38 to 3.08% obs/ft	Threshold: 135°F (58°C)
Test Feature	Sensitivity reading using Test/Picker Tool		N/A
Operating Temperature	32°F to 100°F (0° C to 38°C)		
Operating Humidity	20-95% RH (non-condensing)		
Maximum Spacing	30 ft (9.1m) centers		60 ft (18.2m) centers
Construction	White molded high-impact fire-retardant plastic		
UL Compatibility ID	A		
Compatible Bases	CSBU-1: Standard detector base CSB4U-1: 4" Standard detector base CRB4U-1: 4" Detector base with relay CSBU-3: Detector base with resistor		
Accessories	C-TRIM: Trim skirt for standard base C-PST: Detector picker/sensitivity tester EC-LED: Remote Alarm LED		

